

**WHAT IS CLAIMED IS:**

1. A wireless earphone with a mainframe separated with an output unit comprising:  
a mainframe having a signal portion having a transmission chip,  
5 a message processing unit for bidirectionally receiving / transmitting far-end bidirectional signals; and a positioning unit assembled and clamped in a human body; and  
an output unit having a voice emitting unit arranged at an ear of the human body and outputting signals, a receiving unit arranged  
10 at the speaking portion of the human body and then inputting signal to the message processing unit through a transmission line; wherein the mainframe is separated with the output unit, thereby, the whole weight is reduced so as to provide a comfort feeling to the user.
- 15 2. The wireless earphone with a mainframe separated with an output unit as claimed in claim 1, wherein the message processing unit is further installed with a display portion for informing incoming message to the user.
- 20 3. The wireless earphone with a mainframe separated with an output unit as claimed in claim 1, wherein the message processing unit is further installed with a microphone for informing incoming message to the user.
- 25 4. The wireless earphone with a mainframe separated with an output unit as claimed in claim 1, wherein a control portion for controlling the signal receiving / transmitting signal is installed at

the message processing unit.

5. The wireless earphone with a mainframe separated with an output unit as claimed in claim 1, wherein the positioning unit has two clamping pieces which are connected by a pivotal piece;  
5 front ends of two clamping pieces have claw portions which are symmetrically.
6. The wireless earphone with a mainframe separated with an output unit as claimed in claim 1, wherein the message processing unit is installed with a receptacle which is  
10 conformable to a plug at an end portion of the transmission line.
7. The wireless earphone with a mainframe separated with an output unit as claimed in claim 1, wherein the voice emitting unit and the receiving unit of the output unit are connected to the message processing unit by respective transmission line.